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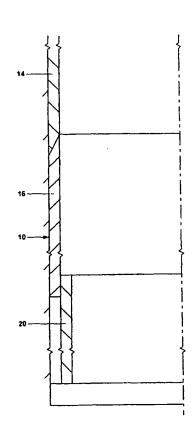
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[Continued on next page]

(54) Title: METHOD OF FORMING A MONO DIAMETER WELLBORE CASING



(57) Abstract: A method of forming a wellbore casing that includes positioning a first wellbore casing (14) within and coupling to a borehole (10), positioning a second wellbore casing (16) within the borehole that overlaps with and is coupled to the first wellbore casing (14), positioning a tubular liner (18) within the borehole that overlaps with and is coupled to at a least a portion of the second wellbore casing (16), extending the length of the borehole (10), decoupling the liner (18) from the second casing (16) and removing the liner from the borehole, and positioning a third wellbore casing (20) within the borehole that overlaps with and is coupled to the second wellbore casing (16).

## WO 2004/011776 A3



GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Declaration under Rule 4.17:

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- with international search report
- with amended claims

SE, SI, SK, TR). OAPI patent (BF, BJ, CF, CG, Cl, CM. (88) Date of publication of the international search report:

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

#### AMENDED CLAIMS

[received by the International Bureau on 20 July 2004 (20.07.04); claims 21 to 30 added]

21. A method of forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

positioning a tubular liner within the borehole; extending the length of the borehole; removing the tubular liner from the borehole; positioning a wellbore casing within the borehole; and coupling the wellbore casing to the borehole.

22. A method of forming a wellbore casing within a borlehole that traverses a subterranean formation, comprising:

positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

positioning a tubular liner within the borehole that overlaps with and is coupled to at least a portion of the first wellbore casing;

extending the length of the borehole;

decoupling the tubular liner from the first wellbore casing and removing the tubular liner from the borehole; and

positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing.

23. A system for forming a wellbore casing within a berehole that traverses a subterranean formation, comprising:

means for positioning a tubular liner within the borehole;
means for extending the length of the borehole;
means for removing the tubular liner from the borehole;
means for positioning a wellbore casing within the borehole; and
means for coupling the wellbore casing to the borehole.

24. A system for forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

means for positioning a first wellbore easing within and coupling the first wellbore easing to the borehole;

means for positioning a tubular liner within the birehole that overlaps with and is coupled to at least a portion of the first wellbore casing;

means for extending the length of the borehole;

means for decoupling the tubular liner from the first wellbore casing and removing the tubular liner from the borehole; and

means for positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing.

25. A method of forming a wellhore casing within a borehole that traverses a subterranean formation, comprising:

positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing;

preventing the second wellbore casing from collapsing;

extending the length of the borehole; and

positioning a third wellbore casing within the borehole that overlaps with and is coupled to the second wellbore casing.

26. A method of forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

preventing the borehole from collapsing; extending the length of the borehole; positioning a wellbore casing within the borehole; and

coupling the wellbore casing to the borehole.

27. A method of forming a wellbore easing within a borehole that traverses a subterranean formation, comprising:

positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

preventing the first wellbore casing from collapsing;

extending the length of the borehole; and

positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing.

28. A system for forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

means for positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

means for positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore easing;

means for preventing the second wellbore casing from collapsing;
means for extending the length of the borehole; and
means for positioning a third wellbore easing within the borehole that overlaps with and is
coupled to the second wellbore easing.

29. A system for forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

means for preventing the borehole from collapsing; means for extending the length of the borehole; means for positioning a wellbore casing within the borehole; and means for coupling the wellbore casing to the borehole.

30. A system for forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

means for positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

means for preventing the first wellbore casing from collapsing;

means for extending the length of the borehole; and

means for positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing.

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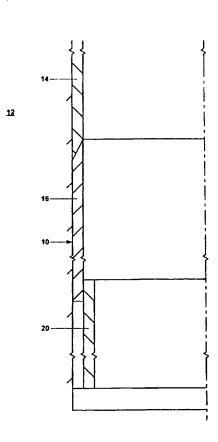
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- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

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(54) Title: METHOD ()I: FORMING A MONO DIAMETER WELLBORE CASING



(57) Abstract: A method of forming a wellbore casing that includes positioning a first wellbore casing (14) within and coupling to a borehole (10), positioning a second wellbore casing (16) within the borehole that overlaps with and is coupled to the first wellbore casing (14), positioning a tubular liner (18) within the borehole that overlaps with and is coupled to at a least a portion of the second wellbore casing (16), extending the length of the borchole (10), decoupling the liner (18) from the second casing (16) and removing the liner from the borehole, and positioning a third wellbore casing (20) within the borehole that overlaps with and is coupled to the second wellbore casing (16).

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#### Published:

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/20870

OF A COLUMN ATTOM OF CHIM TOOM AS A STREET		
CLASSIFICATION OF SUBJECT MATTER  IPC(7) : E21B 7/20, 19/16, 43/10		
US CL : 175/171; 166/380, 207, 208		RECEIV
According to International Patent Classification (IPC) or	to both national classification and IPC	
B. FIELDS SEARCHED		OCT 2 2 20
4inimum documentation searched (classification system U.S.: 175/171; 166/380, 207, 208, 206, 216, 217, 2	followed by classification symbols) 277	HAYNES & BOONE
ocumentation searched other than minimum documenta	tion to the extent that such documents are inclu-	ded in the fields searched
Electronic data base consulted during the international se EAST: wellbore, casing, coupling, liner, decoupling, ex	earch (name of data base and, where practicable panding, mono diameter	, search terms used)
C. DOCUMENTS CONSIDERED TO BE RELEV	ANT	I s I was also No
Category * Citation of document, with indication,	, where appropriate, of the relevant passages	Relevant to claim No.
A US 1,880,218 A (SIMMONS) 1 October 1	US 1,880,218 A (SIMMONS) 1 October 1930 (01.10.1930), Figures 3 and 4.	
A US 6,543,552 B1 (METCALFE et al) 8 A	US 6,543,552 B1 (METCALFE et al) 8 April 2003 (08.04.2003), Figures 1-5.	
A US 4,483,399 A (COLGATE) 20 Novemb	US 4,483,399 A (COLGATE) 20 November 1984 (20.11.1984), Figure 2.	
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A US 6,550,539 B2 (MAGUIRE et al) 22 A	US 6,550,539 B2 (MAGUIRE et al) 22 April 2003 (22.04.2003), Figures 4a-4f.	
A US 6,070,671 A (CUMMING et al) 6 Jun	US 6,070,671 A (CUMMING et al) 6 June 2000 (06.06.2000), Figures 1-4.	
Further documents are listed in the continuation of	f Box C. See patent family annex.	
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<ul> <li>*P* document published prior to the international filing date but later to priority date claimed</li> </ul>		tent family
Date of the actual completion of the international search	Date of mailing of the international 2 4 MAY 2004	search report
17 October 2003 (17.10.2003)		
Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US	Alaborized officer David Bagnali	
Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. 703-306-4198	
Facsimile No. (703)305-3230		<del></del>

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